UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

# NOTICE OF ALLOWANCE AND FEE(S) DUE

26259

7590

12/20/2004

LICATLA & TYRRELL P.C. 66 E. MAIN STREET MARLTON, NJ 08053 EXAMINER

HELMS, LARRY RONALD

ART UNIT PAPER NUMBER

1642

DATE MAILED: 12/20/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/806,311	07/18/2001	Roberto A Macina	DEX-0184	8561

TITLE OF INVENTION: NOVEL METHOD OF DIAGNOSING, MONITORING, STAGING, IMAGING AND TREATING GATROINTESTINAL CANCERS

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$0	\$1400	03/21/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

indicated unless corrected maintenance fee notification	below or directed otherwise ons.	in Block 1, by (a)	specifying a ne	ew correspondence addre	ss; and/or (b) indicating a sepa	rate "FEE ADDRESS" for	
CURRENT CORRESPONDEN	ICE ADDRESS (Note: Use Block 1 for	any change of address)		Note: A certificate	of mailing can only be used for This certificate cannot be used to	or domestic mailings of the	
				papers. Each addition	onal paper, such as an assignme cate of mailing or transmission.	nt or formal drawing, must	
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LICATLA & TY				I hereby certify that	Certificate of Mailing or Trans t this Fee(s) Transmittal is being	mission  deposited with the United	
66 E. MAIN STRI				States Postal Service	e with sufficient postage for fire	st class mail in an envelope	
MARLTON, NJ 0	18033			transmitted to the U	t this Fee(s) Transmittal is being e with sufficient postage for fin fail Stop ISSUE FEE address SPTO (703) 746-4000, on the d	late indicated below.	
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APPLICATION NO.	FILING DATE		FIRST NAMED I	NVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/806,311	07/18/2001	.,,,	Roberto A N	/acina	DEX-0184	8561	
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APPLN, TYPE	SMALL ENTITY	ISSUE FI	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1400	)	\$0	\$1400	03/21/2005	
EXA	MINER	ART UN	IT	CLASS-SUBCLASS			
HELMS, LA	RRY RONALD	1642		435-006000			
1. Change of corresponden	ice address or indication of "F	ee Address" (37	•	g on the patent front page			
CFR 1.363).	ndance address (or Change of	Correspondence	(1) the name	s of up to 3 registered part, alternatively,	itent attorneys		
Address form PTO/SB/	ndence address (or Change of 122) attached.	Correspondence	(2) the name of a single firm (having as a member a 2				
"Fee Address" indic	ation (or "Fee Address" Indica or more recent) attached. Us	ation form	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is 3				
Number is required.	or more recent) attached. Us	e of a Customer	listed, no name will be printed.				
	D RESIDENCE DATA TO E						
PLEASE NOTE: Unles recordation as set forth	ss an assignee is identified be in 37 CFR 3.11. Completion	elow, no assignee of this form is NO	data will appear T a substitute for	r on the patent. If an ass r filing an assignment.	signee is identified below, the d	locument has been filed for	
(A) NAME OF ASSIG				(CITY and STATE OR C			
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☐ Issue Fee		•		the amount of the fee(s) is credit card. Form PTO-2			
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The Director of the USPTO NOTE: The Issue Fee and interest as shown by the re	O is requested to apply the Iss Publication Fee (if required) cords of the United States Pat	ue Fee and Publica will not be accepted ent and Trademark	tion Fee (if any) d from anyone o Office.	or to re-apply any previo	ously paid issue fee to the applic registered attorney or agent; or t	he assignee or other party in	
Authorized Signature _				Date			
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an application. Confidentic submitting the completed this form and/or suggestio Box 1450, Alexandria, Vir Alexandria, Virginia 2231	ality is governed by 35 U.S.C application form to the USP1 ns for reducing this burden, s rginia 22313-1450. DO NOT 3-1450.	1. 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR (	1.14. This collect depending upon e Chief Informa COMPLETED F	ction is estimated to take in the individual case. An tion Officer, U.S. Patent FORMS TO THIS ADDR	by the public which is to file (an 12 minutes to complete, includi y comments on the amount of the trademark Office, U.S. Deg ESS. SEND TO: Commissioner	ng gathering, preparing, and ime you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,	

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# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box, 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/806,311 07/18/2001		07/18/2001	Roberto A Macina	DEX-0184	8561
26259	7590	12/20/2004	EXAM	INER	
LICATLA &		L P.C.	HELMS, LARRY RONALD		
66 E. MAIN ST MARLTON, N.		•		ART UNIT	PAPER NUMBER
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			DATE MAIL ED. 12/20/200	4	

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
Nation of Allowahility	09/806,311	MACINA, ROBERTO	D A
Notice of Allowability	Examiner	Art Unit	
	Larry R. Helms	1642	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. <b>THIS</b>
1. $igspace$ This communication is responsive to <u>The amendment filed</u>	<u>10/7/04</u> .		
2. X The allowed claim(s) is/are 1 and 12-16.			
3. The drawings filed on are accepted by the Examine	r.		
4. Acknowledgment is made of a claim for foreign priority ur  a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do  International Bureau (PCT Rule 17.2(a)).	been received. been received in Application No		tion from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply a MENT of this application.	complying with the red	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) [ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached	•
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	·		
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	Patent Application (PT	O-152\
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary	• • • • • • • • • • • • • • • • • • • •	0-102)
	Paper No./Mail Dat	te <u>10/14/04</u> .	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date</li> </ol>	08), 7. Examiner's Amendr	ment/Comment	
4.   Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allo	owance
of Biological Material	9.  Other		
LARRY R. HELMS, PH.D PRIMARY EXAMINER			

Application/Control Number: 09/806,311

Art Unit: 1642

# **REASONS FOR ALLOWANCE**

Page 2

The following is an examiner's statement of reasons for allowance:

The claims are directed to a method of detecting cancer of the stomach or small intestine by measuring SEQ ID NO:1 or 2 in a sample and patient. The closest prior art is the art of Soppet et al (US Patent 5,861,494, filed 6/95) which teaches detection of colon cancer and metastasis of colon cancer by detection of SEQ ID NO:1 and 2 wherein SEQ ID NO:2 is identical to SEQ ID NO:2 in the instant application. Soppet et al does not teach or fairly suggest a method of detecting stomach or small intestine cancer because Soppet et al uses a colon sample and does not suggest or teach using a sample of stomach or small intestine to determine metastasis or detecting metastasis of colon cancer to the stomach or small intestine.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

LARRY R. HELMS, PH.D PRIMARY EXAMINER

	Application No	) <b>.</b>	Applicant(s)	
Interview Summary	09/806,311		MACINA, ROBER	RTO A
interview Summary	Examiner		Art Unit	
	Larry R. Helms		1642	
All participants (applicant, applicant's representative, PTO	personnel):			
(1) <u>Larry R. Helms</u> .	(3)			
(2) <u>Ms. Tyrrell</u> .	(4)	•		
Date of Interview: <u>07 October 2004</u> .				
Type: a)⊠ Telephonic b)□ Video Conference c)⊠ Personal [copy given to: 1)□ applicant	2)⊠ applicant's	representative	]	
Exhibit shown or demonstration conducted: d) Yes If Yes, brief description:	e)⊠ No.			
Claim(s) discussed: <u>claim 1</u> .				
Identification of prior art discussed: <u>none</u> .				
Agreement with respect to the claims f) was reached.	g)⊠ was not rea	iched. h)∐ N	/A.	
Substance of Interview including description of the general reached, or any other comments: <u>Discussed adding the lincells, tissues</u> , or body fluid as the patient sample. Ms. Tyr	nitations that the	control sample		
(A fuller description, if necessary, and a copy of the amendallowable, if available, must be attached. Also, where no callowable is available, a summary thereof must be attached.	opy of the amer			
THE FORMAL WRITTEN REPLY TO THE LAST OFFICE A INTERVIEW. (See MPEP Section 713.04). If a reply to the GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR FORM, WHICHEVER IS LATER, TO FILE A STATEMENT Summary of Record of Interview requirements on reverse s	last Office action THE MAILING OF THE SUBS	on has already DATE OF THIS FANCE OF TH	been filed, APPI S INTERVIEW S	LICANT IS UMMARY
Examiner Note: You must sign this form unless it is an				<del></del>
Attachment to a signed Office action.	E	kaminer's signa	ature, if required	

### **Summary of Record of Interview Requirements**

#### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

#### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135, (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by
  attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does
  not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner.

(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)

- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

#### **Examiner to Check for Accuracy**

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

#### Applicant(s)/Patent Under Reexamination Application/Control No. 09/806,311 MACINA, ROBERTO A Notice of References Cited Examiner Art Unit Page 1 of 1 1642 Larry R. Helms **U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US-5,861,494	01-1999	Soppet et al.	536/23.1
	В	US-		·	
	С	US-	:		
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	Н	US-			
	i	US-			
	J	US-			
	к	US-			
	L	US-			
	М	US-			

## FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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### **NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	x	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

